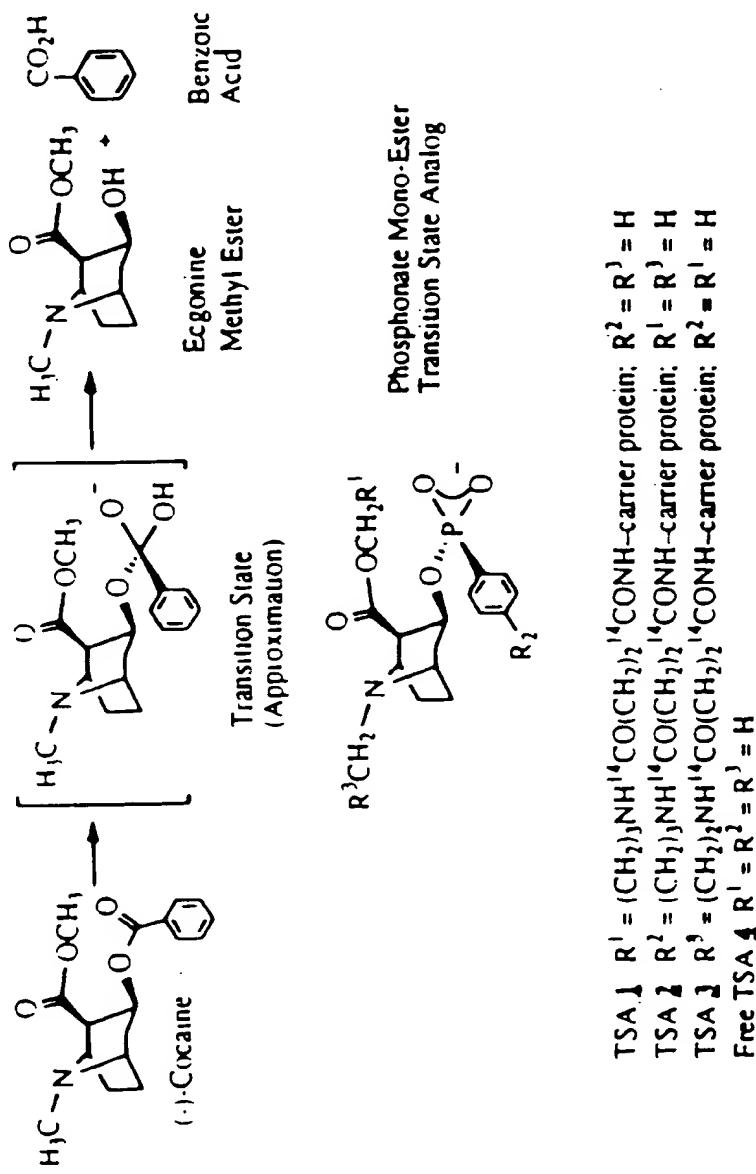


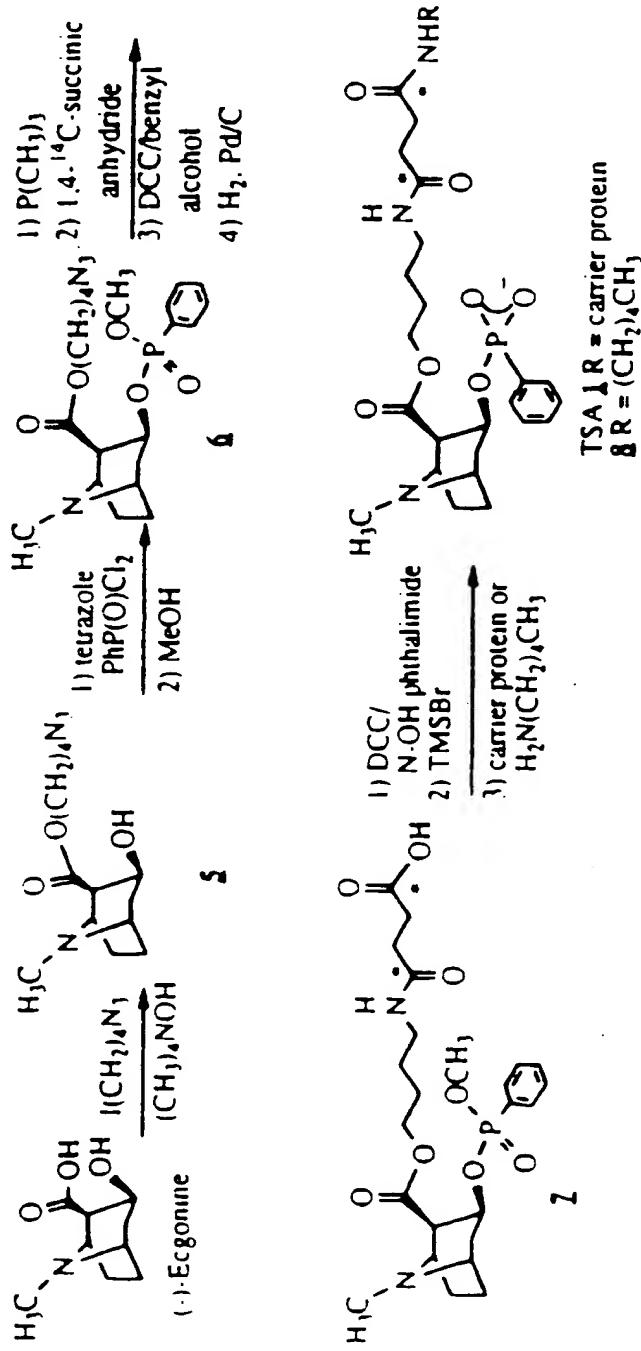
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FIG. 1



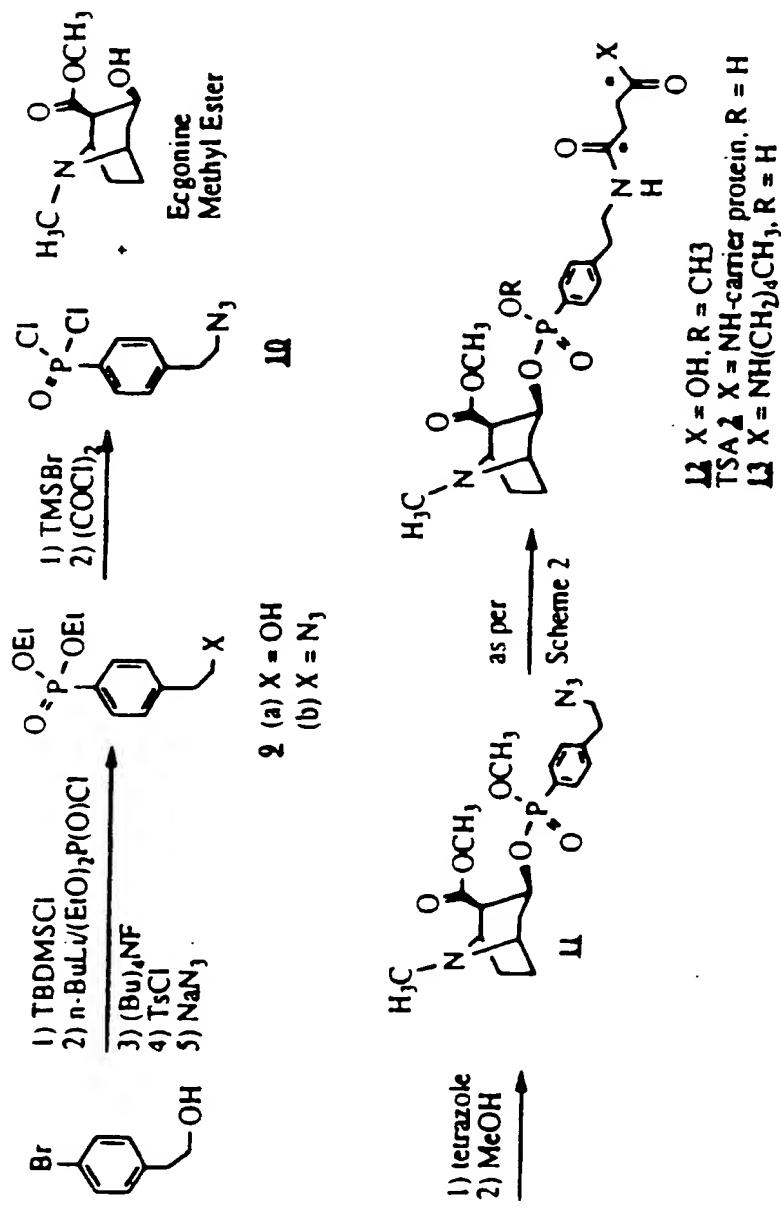
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FIG. 2



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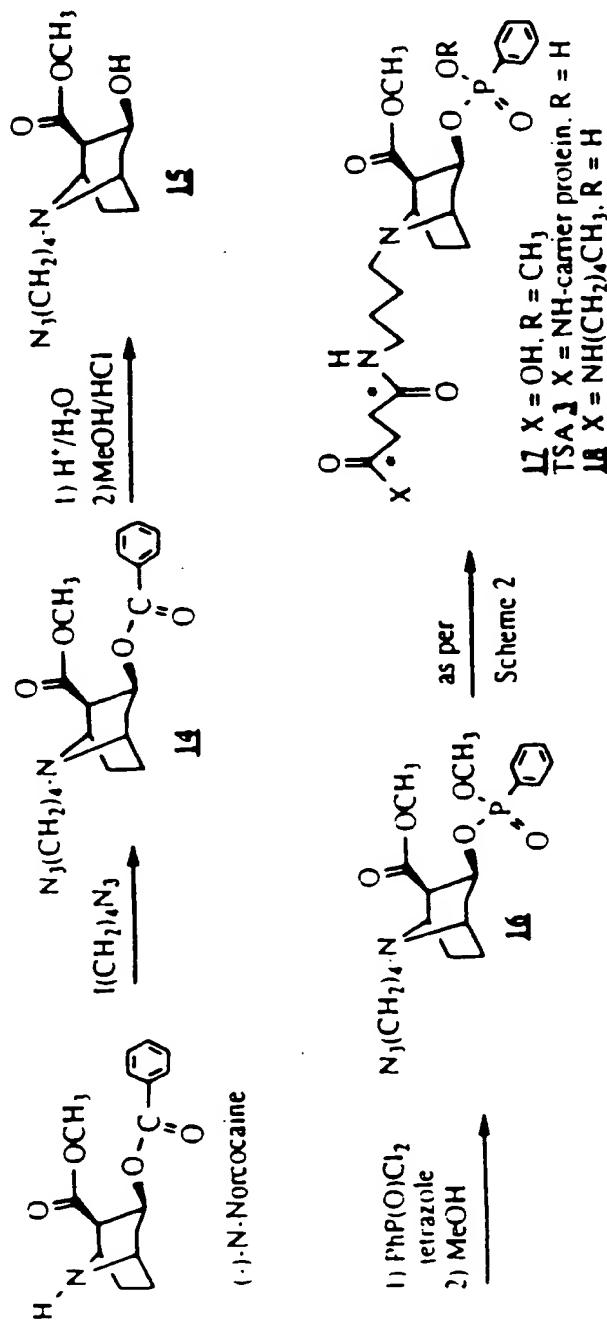
FIG. 3



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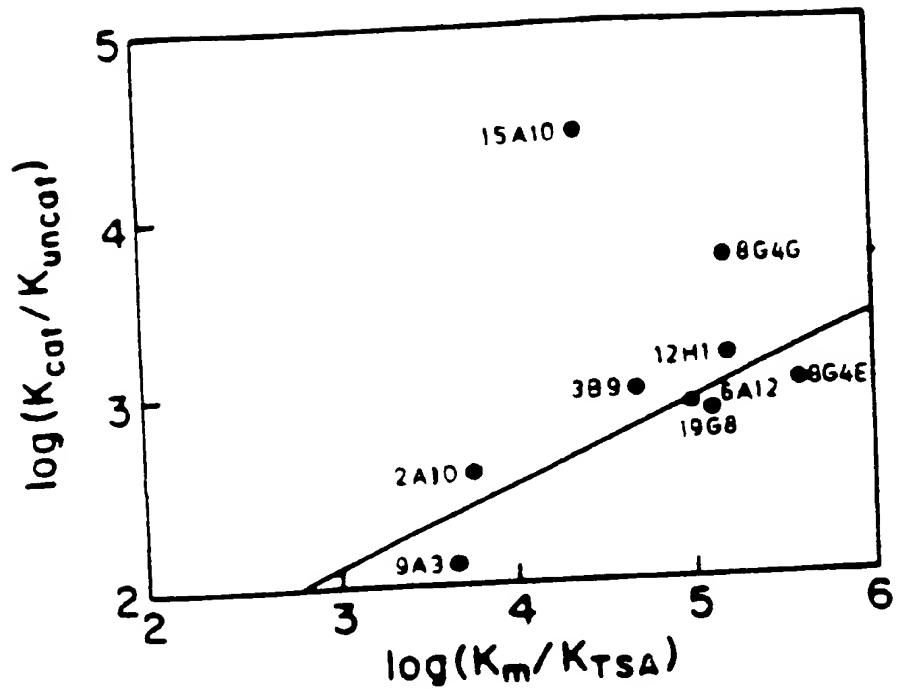
FIG. 4

Scheme 4



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FIG. 5



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FIG. 6 LAMBDA LIGHT CHAIN ALIGNMENT

9A(lam9) vari 1:-----TMPGETVLTCSRSTGTTTNSYANVQEAKDILVSSV.....V.....
19G(lam5) vari 1:-----R.....A.....SD.....V.....Y.....
15A10L vari 1:AVVQTQESALT.S.....S.....AN.....GS.....VS.....G.....
G7(lam4) vari 1:-----RA.....S.....*****S.....S.....*****S.....S.....*

9A(lam9) vari 61:ARFSGSLIGDKAVLITIGAQI**T**DEAIYFCALWYSNNHWFGGGTKLTVL
 19G(lam5) vari 61:.....**T**.A.....
 15A10 Vari 61:.....**T**.....
 6Z(lam4) vari 61:.....**G**.....

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FIG. 7 KAPPA LIGHT CHAIN ALIGNMENT

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FIG. 8 HEAVY CHAIN ALIGNMENT

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FIG. 9

10 20 30 40 50 60
GCTGTTTACTCAGGAGTCTGCTCTAACTACATCACCTGGTGAAACAGTCACACTCACT
A V V T Q E S A L T T S P G E T V T L T

70 80 90 100 110 120
TGTCGCTCAAGTACTGGGACTATTACAAGTGATAACTATGCCAACTGGGTCCAAGAAAAA
C R S S T G T I T S D N Y A N W V Q E K

130 140 150 160 170 180
CCAGATCATTATTCACTGGTCTAATAGGTGTTAATAATTACCGACCTCCAGGTGTTCCCT
P D H L F S G L I G V N N Y R P P G V P

190 200 210 220 230 240
GCCAGATTCTCAGGCTCCCTGACTGGAGACAAGGCTGTCCTCACCATCACAGGGGCACAG
A R F S G S L T G D K A V L T I T G A Q

250 260 270 280 290 300
ACTGAGGGATGAGGCAATATATTCTGTGCTCTATGGTACAGCAACCACTGGGTGTTGGT
T E D E A I Y F C A L W Y S N H W V F G

310 320 330 340 350 360
GGAGGAACCAAAC TGACTGTCCTAGGCCAGCCAAAGTCTCGCCATCAGTCACCCCTGTT
G G T K L T V L G

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FIG. 10

10 20 30 40 50 60
 TCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGGTATCCTGTAAGGCTTCTGGT
 S G P E L V K P G A S V K V S C K A S G

 70 80 90 100 110 120
 TATTCAATTCACTGACTACAATATGTACTGGGTGAAGCAGAACCATGGAGAGAGCCTGAA
 Y S F T D Y N M Y W V K Q N H G E S L E

 130 140 150 160 170 180
 TGGATTGCATATATTGATCCTTCCAATGGTGATACTTCTACAACCAAGAAATTCCAGGGC
 W I A Y I D P S N G D T F Y N Q K F Q G

 190 200 210 220 230 240
 AAGGCCACAGTGACTCTTGACAAGTCCTCCAGTACAGCCTTCATGCATCTAACAGCCTG
 K A T V T L D K S S S T A F M H L N S L

 250 260 270 280 290 300
 ACATCTGAGGACTCTGCACTCTATTACTGTGCAAGAGGGGGGGCCTGTTGCTTTCTGG
 T S E D S A V Y Y C A R G G G L F A F W

 310 320 330
 GGGCAAGGGACTCTGGTCACTGTCTCTGCA
 G O G T L V T V S A

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FIG. 11

10 20 30 40 50 60
GTCGCATGCTCCGGNCNCATGGNCGGGATTGGAAATTCCACGAGGCCGGGGAGAC
T R P G E T

70 80 90 100 110 120
AGTCACACTCACTTGTGTTCAAGTGCTGGACTATTACAACTAGTAACTATGCCAACTG
V T L T C R S S A G T I T T S N Y A N W

130 140 150 160 170 180
GGTCCAAGAAAAACCAAGATCATTATTCAAGTGGCTAAATAGGTGTTAACAAACACCAC
V Q E K P D H L F S G L I G V N N N R P

190 200 210 220 230 240
TCCAGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACACGGCTGCCCTCACCAT
P G V P A R F S G S L I G D T A A L T I

250 260 270 280 290 300
CACAGGGGCACAGACTGAGGATGAGGCAATATATTTCTGTGCTCTGGTACAGCAACCA
T G A Q T E D E A I Y F C A L W Y S N H

310 320 330 340 350 360
CTGGGTGTTGGTGGAGGAACCAACTGACTGTCTAGGCCAGCCAGTCTCGNCATC
W V F G G G T K L T V L G

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FIG. 12

10 20 30 40 50 60
GAATTGGCACGAGCAGGAAC TACAGGTGTCCACTCTGAGATCCACCTGAGCAGTCTGG
E I H L Q Q S G

70 80 90 100 110 120
ACCTGAGCTGGTGAAGCCTGGGCTTCAGTGAAGTTATCCTGCAAGGCTTCTGGTTACTC
P E L V K P G A S V K L S C K A S G Y S

130 140 150 160 170 180
ATTCACTGACTACAACATGTACTGGGTGAAACAGAGCCATGAAAGAGCCTTGAGTGGAT
F T D Y N M Y W V K Q S H G K S L E W I

190 200 210 220 230 240
TGGATATATTGATCCTCACAA TGGTGGTATTTCTACAACCAGAAGTTCAAGGGCAGGGC
G Y I D P H N G G I F Y N Q K F K G R A

250 260 270 280 290 300
CACATTGACTGTTGACAAGT CCTCCAACACAGCCTCATGCATCTCAACAGCCTGACATC
T L T V D K S S N T A F M H L N S L T S

310 320 330 340 350 360
TGAGGACTCTGAGTCTATTACTGTGCAAGAGGGGGGGGCTGTTGCTTACTGGGCCG
E D S A V Y Y C A R G G G L F A Y W G R

370 380 390 400 410 420
AGGGACTCTGGTCACTGTCTCTGCAGCCAAAACGACACCCCCATCTGTCTATCCACTGGC
G T L V T V S A

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FIG. 13

10 20 30 40 50 60
GTCGCATGCTCCGGNCGCCATGGNCGGCGGGATTGGGAATTCCACGTGGCCGGGGAGAC
T W P G E T

70 80 90 100 110 120
AGTCACACTCACTTGTGCTCAAGTACTGGGACTATTACAACACTAGTAACATGCCAACTG
V T L T C R S S T G T I T T S N Y A N W

130 140 150 160 170 180
GGTCCAAGAAAAACCAAGATCATTATTCACTGGTCTGATAGGTATTAACAACAACCGACC
V Q E K P D H L F S G L I G I N N N R P

190 200 210 220 230 240
TCCAGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGTCCCTACCAT
P G V P A R F S G S L I G D K A V L T I

250 260 270 280 290 300
CACAGGGGCACAGACTGAGGATGAGGAATATATTTCTGTGCTCTATGGTACAGCAACCA
T G A Q T E D E A I Y F C A L W Y S N H

310 320 330 340 350 360
CTGGGTGTTGGTGGAGGAACCAACTGACTGTCTAGGCCAGCCAAAGTCTCGNCATC
W V F G G G T K L T V L G

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FIG. 14

70 80 90 100 110 120
GGTCCAGCTGCTCGAGCTGGACCTGAGCTGGTGAAGCCTGGGCTTCAGTGAAGTTATC
S G P E L V K P G A S V K L S

130 140 150 160 170 180
CTGCAAGGCTTCTGGTTACCCATTCACTGACTACACATGTACTGGGTGAAGCAGAGCCA
C K A S G Y P F T D Y N M Y W V K Q S H

190 200 210 220 230 240
TGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTCCAATGGTGGTATTTTTACAA
G K S L E W I G Y I D P S N G G I F Y N

250 260 270 280 290 300
CCAGAACATTCAAGGGCAGGCCACATTGACTGTTGACAAGTCTCCAACACAGCCTTCAT
Q K F K G R A T L T V D K S S N T A F M

310 320 330 340 350 360
GCATCTAACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGGGGGG
H L N S L T S E D S A V Y Y C A R G G G

370 380 390 400 410 420
CCTGTTGCTTACTGGGCCAAGGACTCTGGTCACTGTCTCTGAAGCCAAACGAAACC
L F A Y W G Q G T L V T V S E

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FIG. 15

70 80 90 100 110 120
AGGCAGCCGCACTAGTGATTGGAAATTCCACGAGGGCGGGGAGACAGTCACACTCACTT
T R A G E T V T L T C

130 140 150 160 170 180
GTCGCTCAAGTAGTGGGACTATTACAGCTAATAACTATGGCAGCTGGTCCAGGAAAGC
R S S S G T I T A N N Y G S W V Q E K P

190 200 210 220 230 240
CAGATCATTTATTCACTGGTCTAAATAGGTGTTAGCAACAAACCGAGGTCCAGGTGTTCTG
D H L F T G L I G V S N N R G P G V P A

250 260 270 280 290 300
CCAGATTCTCAGGCTCCCTAATTGGAGACAAGGCTGTCTCACCATCACGGGGGGCAGA
R F S G S L I G D K A V L T I T G G Q T

310 320 330 340 350 360
CTGAGGATGAGGCAATTATTCTGTGCTCTATGGAACAGCAACCAATTCTGTGTTGGTG
E D E A I Y F C A L W N S N H F V F G G

370 380 390 400 410 420
GAGGAACCAAACGTGACTGTCTAGGGCAGACCAAGTCTTCGGCATCAAGCACCCCTGTT
G T K L T V L G Q

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FIG. 16

10 20 30 40 50 60
CCATTGGGCCCGACGTCGCATGCTCCGGCCGATGCCGCGGGATTAGGTCCAACTC
V Q L L

70 80 90 100 110 120
TCGAGTCTGGGCTGAAGCCTGGGCTTCAGTGGAGTTGTCTGCAGGACTT
E S G A E L V K P G A S V E L S C R T S

130 140 150 160 170 180
CTGGCTACACCTTACCCACTATTTACTGGTAAACAGAGGCCCTGGACAAGGCC
G Y T F T T Y Y I Y W V K Q R P G Q G L

190 200 210 220 230 240
TTGAGTGGATTGGGGGATGAATCCTGGCAATGGTGTACTTACTTCAATGAAAAATTCA
E W I G G M N P G N G V T Y F N E K F K

250 260 270 280 290 300
AGAACAGGCCACACTGACTGTGGACAGATCCTCCAGATTGCCTACATGCAACTCAGCA
N R A T L T V D R S S S I A Y M Q L S S

310 320 330 340 350 360
GCCTGACATCTGAGGACTCTGCGGTCTATTACTGTACACGGGTGGTAACCTCTTGCTT
L T S E D S A V Y Y C T R V G N L F A Y

370 380 390 400 410 420
ACTGGGGCCGAGGGACTCTGGTCACTGTCTGCAGCAGCAAAACGACACCCCCACTTCTAT
W G R G T L V T V S A

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FIG. 17

10 20 30 40 50 60
GATATTGTGATGACCCAGGATGAACTCTCCAAATCCTGTCACTTCTGGAGAATCAGTTCC
D I V M T Q D E L S N P V T S G E S V S

70 80 90 100 110 120
ATCTCCTGCAGGTCTAGTAGGAGTCTCCTATATAGGGATGGGAAGACATACTTGAATTGG
I S C R S S R S L L Y R D G K T Y L N W

130 140 150 160 170 180
TTTCTGCAGAGACCAGGACATCTCCTCAACTCCTGATCTATTGATGTCCACCCGTTCA
F L Q R P G R S P Q L L I Y L M S T R S

190 200 210 220 230 240
TCAGGAGTCTCAGACCCGGTTAGTGGCAGTGGGTCAAGAACAGATTTCACCTGGAAATC
S G V S D R F S G S G S G T D F T L E I

250 260 270 280 290 300
AGTAGAGTGAAGGCTGAGGATGTGGGTGTGTATTACTGTCAACACTTTGTAGACTATCCA
S R V K A E D V G V Y Y C Q H F V D Y P

310 320 330
TTCACGTTGGCTCGGGGACAAAGTTGGAGATAAAACGG
F T F G S G T K L E I K R

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FIG. 18

10 20 30 40 50 60
GATGTGCAGCTTCAGGAGTCGGACCTGGCTGGTGAACACCTCTCAGTCTCTGTCCCTC
D V Q L Q E S G P G L V K P S Q S L S L

70 80 90 100 110 120
ACCTGCACGTCACTGGCAATTCAATCACCAAGTGATTATGCCCTGGACCTGGATCCGGCAG
T C T V T G N S I T S D Y A W T W I R Q

130 140 150 160 170 180
TTTCCAGGAAACAAACTGGAGTGGATGGCTACATAAGGCACATTATGGCACTAGGTAC
F P G N K L E W M G Y I R H I Y G T R Y

190 200 210 220 230 240
AACCCCTCTCTCATAAAGTCGAATCTCTATCACTCGAGACACGTCCAAGAACCAAGTTCTC
N P S L I S R I S I T R D T S K N Q F F

250 260 270 280 290 300
CTGCAGTTGGATTCTGTGACTGCTGAGGACACAGCCACATATTATTGTGTAAGATATCAT
L Q L D S V T A E D T A T Y Y C V R Y H

310 320 330 340 350 360
TACTACGGTTGGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCAGCCAAAACG
Y Y G S A Y W G Q G T L V T V S A A K T

ACACCC
T P

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FIG. 19

10 20 30 40 50 60
GATATGGTGTGACGCAAGATGAACTCTCCAATCCTGTCACTTCTGGAGAATCAGTTCC
D M V M T Q D E L S N P V T S G E S V S

70 80 90 100 110 120
ATCTCCTGCAGGTCTAGTAGGAGTCTCCTATATAGGGATGGGAAGACATACTTGAATTGG
I S C R S S R S L L Y R D G K T Y L N W

130 140 150 160 170 180
TTTCTGCAGAGACCAAGGACGATCTCCTCAACTCCTGATCTATTGATGTCCACCCGTGCA
F L Q R P G R S P Q L L I Y L M S T R A

190 200 210 220 230 240
TCAGGAGTCTCAGACCGGTTAGTGGCAGTGGGTAGGAACAGATTCAACCTTGAAATC
S G V S D R F S G S G S G T D F T L E I

250 260 270 280 290 300
AGTAGAGTGAAGGCTGAGGATGTGGGTGTGATTACTTCAACACTTGAAGACTATCCA
S R V K A E D V G V Y Y F Q H F E D Y P

310 320 330 340 350 360
TTCACGTTGGCTGGGACAAATTGGAGATAAAACGGGCTGATGCTGCACCAACTGTA
F T F G S G T K L E I K R

TCCATCTT

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FIG. 20

10 20 30 40 50 60
GACGTGCAGTTGCAGGAGTCGGGACCTGGCTGGTGAACCTCTCAGTCTCTGTCCCTC
D V Q L Q E S G P G L V K P S Q S L S L

70 80 90 100 110 120
ACCTGCACGTCACTGGCAATTCAATCACCAGTGATTATGCCTGGACCTGGATCCGGAG
T C T V T G N S I T S D Y A W T W I R Q

130 140 150 160 170 180
TTTCCAGGAAACAACTGGAGTGGATGGCTACATAAGGCACATTATGGCACTAGGTAC
F P G N K L E W M G Y I R H I Y G T R Y

190 200 210 220 230 240
AACCCCTCTCTCATAAAGTCGAATCTCTATCACTCGAGACACGTCCAAGAACAGTTCTC
N P S L I S R I S I T R D T S K N Q F F

250 260 270 280 290 300
CTGCAGTTGGATTCTGTGACTGCTGAGGACACAGCCACATATTATTGTGTAAGATATCAT
L Q L D S V T A E D T A T Y Y C V R Y H

310 320 330 340 350 360
TACTACGGTTGGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCAGCCAAACG
Y Y G S A Y W G Q G T L V T V S A A K T

ACACCC
T P

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FIG. 21

10 20 30 40 50 60
GATATGGTGTGACGCCAAGACGAACCTCTCCAAATCCTGTCACTTCTGGAGAACAGTTCC
D M V M T Q D E L S N P V T S G E S V S

70 80 90 100 110 120
ATCTCCTGCAGGTCTAGTAAGAGTCTCCTATATGAGGATGGGAAGACATACTTGAATTGG
I S C R S S K S L L Y E D G K T Y L N W

130 140 150 160 170 180
TTTCTGCAGAGACCAGGACAATCTCCTCACCTCCTGATCTATTGATGTCCACCCGTGCA
F L Q R P G Q S P H L L I Y L M S T R A

190 200 210 220 230 240
TCAGGAGTCTAGACCGGTTAGTGGCAGTGGGTCAAGAACAGATTTCACCCCTGGAAATC
S G V S D R F S G S G S G T D F T L E I

250 260 270 280 290 300
AGTAGAGTGAAGGCTGAGGATGTGGGTGCGTATTACTGTCAACAAATTGTAGAGTATCA
S R V K A E D V G A Y Y C Q Q F V E Y P

310 320 330 340 350 360
TTCACGTTCCGGCTCGGGGACAAAGTTGGAAATAAGACGGGTTGATGCCGCACCAACTGTA
F T F G S G T K L E I R R

TCCATCTT

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FIG. 22

10 20 30 40 50 60
 CATTGGGCCACGTCGAATGNTCCGGNCATGGNCNGGGATTGANAGGGGNCGGA
 E
 70 80 90 100 110 120
 GCTGGTGAAGCCTCTCAGTCTCTGCTCCCTCACCTGCACTGTCACTGGCTACTCAATCAC
 L V K P S Q S L S L T C T V T G Y S I T
 130 140 150 160 170 180
 CAGTGATTATGCCTGGAACTGGATCCGGAGTTCCAGGAAACAGACTGGAGTGGATGGG
 S D Y A W N W I R Q F P G N R L E W M G
 190 200 210 220 230 240
 CTACATAAGGTACAGTGGTATCACTAGGTACAACCCATCTCTCAAAAGTCGAATCTCTAT
 Y I R Y S G I T R Y N P S L K S R I S I
 250 260 270 280 290 300
 CACTCGAGACACATCCAAGAACAGTTCTCCTGCAGTTAAATTCTGTGACTACTGAGGA
 T R D T S K N K F F L Q L N S V T T E D
 310 320 330 340 350 360
 CACAGCCACTTATTACTGTGTAAGAATTCACTACTACGGCTACGGCAACTGGGGCAAGG
 T A T Y Y C V R I H Y Y G Y G N W G Q G
 370 380 390 400 410 420
 CACCACTCTCACAGGTCTTCCCTCAAGAGTCTGGGAAGAAATCCCACCCATCTTCCCCACT
 T T L T G L P

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FIG. 23

10 20 30 40 50 60
NCCTTGGGGGANGGGCATGCTCCGGGGCATGGGGGGATTAGAGCGATATGGT
D M V

70 80 90 100 110 120
GATGACGCAGGATGAACTCTCAATCCTGTCACTCTGGAGAATCAGTTCCATCTCTG
M T Q D E L S N P V T S G E S V S I S C

130 140 150 160 170 180
CAGGTCTAGTAGGAGTCTCCTATATAGGGATGGGAAGACATAC TTGAATTGGTTCTGCA
R S S R S L L Y R D G K T Y L N W F L Q

190 200 210 220 230 240
GAGACCAGGACGATCTCCTCAACTCCTGATCTATTGATGTCCACCCGTGCATCAGGAGT
R P G R S P Q L L I Y L M S T R A S G V

250 260 270 280 290 300
CTCAGACCGGTTAGTGGCAGTGGGTCAAGAACAGATTCACCCCTGGAAATCAGTAGAGT
S D R F S G S G S G T D F T L E I S R V

310 320 330 340 350 360
GAAGGCTGAGGATGTGGGTGTATTACTGTCAACACTTGATGACTATCCATTACGTT
K A E D V G V Y Y C Q H F V D Y P F T F

370 380 390 400 410 420
CGGCTGGGGACAAAGTTGGAGATAAAACGGGTTGATGCTGNANCAACTGTATCCATCTT
G S G T K L E I K R

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FIG. 24

70 80 90 100 110 120
 CTAGTGATTGCTCTAGAGCGACGTGCAGTTGCAGGAGTCGGGACCTGGACTGGTGAACCC
 D V Q L Q E S G P G L V K P

 130 140 150 160 170 180
 TTCTCAGTCTCTGTCCCTCACCTGCACTGTCACTGGTAATTCAATCACCAAGTGATTATGC
 S Q S L S L T C T V T G N S I T S D Y A

 190 200 210 220 230 240
 CTGGACCTGGATCCGGAAGTTCCAGGAAACAAACTGGAGTGGTTGGGCTACATAAGGCA
 W T W I R K F P G N K L E W L G Y I R H

 250 260 270 280 290 300
 CATTATGGCACTAGGTACAACCCCTCTCTCATAGTCGAATCTCTATCACTCGAGACAC
 I Y G T R Y N P S L I S R I S I T R D T

 310 320 330 340 350 360
 GTCCAAGAACCGAGTTCTCTGCAGTTGGATTCTGTGACTGCTGAGGACACAGCCACATA
 S K N Q F F L Q L D S V T A E D T A T Y

 370 380 390 400 410 420
 TTATTGTGTAAGATATCATTACTACGGGTCGGCTACTGGGGGCAAGGGACTCTGGTCAC
 Y C V R Y H Y Y G S A Y W G Q G T L V T

 430 440 450 460 470 480
 TGTCTCTGCAGGCAAAACGANAACCCATCTGTCTATCCACTGGCCCCGGAACGCCGCCAG
 V S A

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FIG. 25

10 20 30 40 50 60
TTNAAGGCCNGACGCCGATAGCTNCGGCGCCATGGCGNGGGATTCCAGTTCCGAG
E

70 80 90 100 110 120
CTCGTGATGACACAGTCTCACTCACTTGTGGTAACCATTGGACAACCAGCCTATC
L V M T Q S P L T L S V T I G Q P A S I

130 140 150 160 170 180
TCTTGCAAGTCAGTCAGAGCCTCTTATATAGTGTGGAAAAACCTATTGAATTGGTTC
S C K S S Q S L L Y S D G K T Y L N W F

190 200 210 220 230 240
TTCCAGAGGCCAGGCCAGTCTCAAAGCGCTTAATCTATCTGGTGTCTAAACTGGACTCT
F Q R P G Q S P K R L I Y L V S K L D S

250 260 270 280 290 300
GGAGTCCCTGACAGGTTCACTGGCAGTGGATCAGGAAAAGATTTACACTGAAAATCAGC
G V P D R F T G S G S G K D F T L K I S

310 320 330 340 350 360
AGAGTGGAGGCTGAGGATTTGGACTTTATTACTGCCTCAAGGGTACACATTCCGCTC
R V E A E D L G L Y Y C V Q G Y T F P L

370 380 390 400 410 420
ACGTTGGTGTGGACCAAGCTGGAGCTGAAACGGGTGATGCTGACCAACTTGTTCAT
T F G A G T K L E L K R

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FIG. 26

10 20 30 40 50 60
 TTGGGCCGGACGTCGATGCTCCGGCGCCATGGNCNGGGATTAGGTCCAACCTCTC
 V Q L L

 70 80 90 100 110 120
 GAGTCTGGGCTGAGCTGTGATGCCTGGGCTTCAGTGAAGATGTCCTGCAAGGTTCT
 E S G A E L V M P G A S V K M S C K A S

 130 140 150 160 170 180
 GGCTACACATTCACTGACCACTGGATGCACTGGTGAAGCAGAGGCCTGGACAAGGCCT
 G Y T F T D H W M H W V K Q R P G Q G L

 190 200 210 220 230 240
 GAGTGGATCGAACGATTGATCTTCTGATACTTATACTGGCTACAATCAAAACTCAAG
 E W I G T I D L S D T Y T G Y N Q N F K

 250 260 270 280 290 300
 GGCAGGGCCACATTGACTCTGACGAATCCTCCAACACAGCCTACATGCAGCTCAGCAGC
 G R A T L T L D E S S N T A Y M Q L S S

 310 320 330 340 350 360
 CTGACATCTGAGGACTCTGGTCTATTACTGTTCAAGAAGGGCTTGACTACTGGGGG
 L T S E D S A V Y Y C S R R G F D Y W G

 370 380 390 400 410 420
 CAAGGCACCACTCTCACAGTCTCCTAGGCAAAACGACAACCCATTTGTCTNTCCACT
 Q G T T L T V S S

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FIG. 27

NdeI H1
 MEVQLQESGPELVKPSQSLSLTCTVGNSITSDYA WT WIRQFP
 H2
 GNKLEWMG YIRHIYGTRYNPSLIS RISITRDTSKNQFFLQLDS SphI
 H3 linker
 VTAEDTATYYCVRYHYYGSAYWGQQGTLVTVSAGMQSGGGGSG
 NcoI L1
 GGGSGGAMDIVMTQDELSNPVTSGESVSISCRSSRSLLYRDGK
 L2
 TYLNWFLQRPGGRPPQLLIYLMSTRSSGVSDRFSGSGSGTDFTL
 L3
 EISRVKAEDVGVYYCQHFVDYPFTFGSGTKLEIKRADGAPTVS
 Flag 6 x His
 IFPPSLDYKDDDDKLEHHHHHH

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FIG. 28A

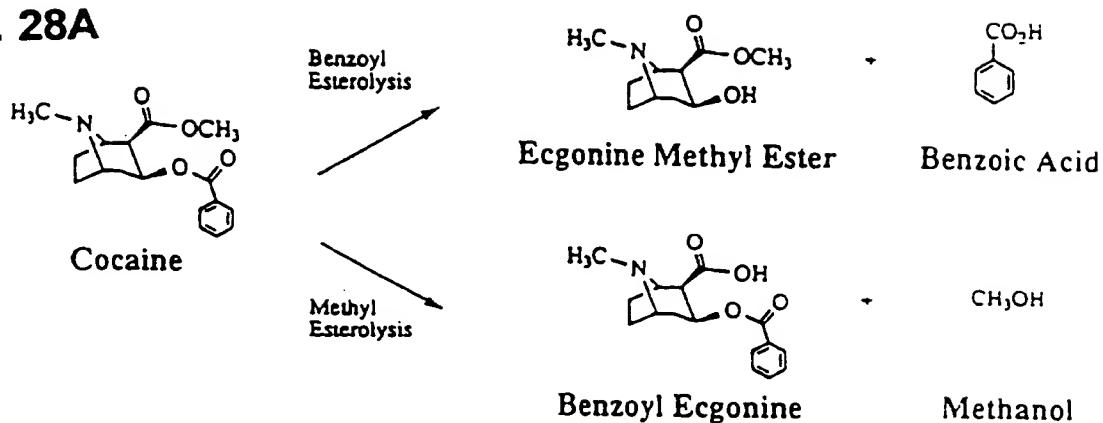
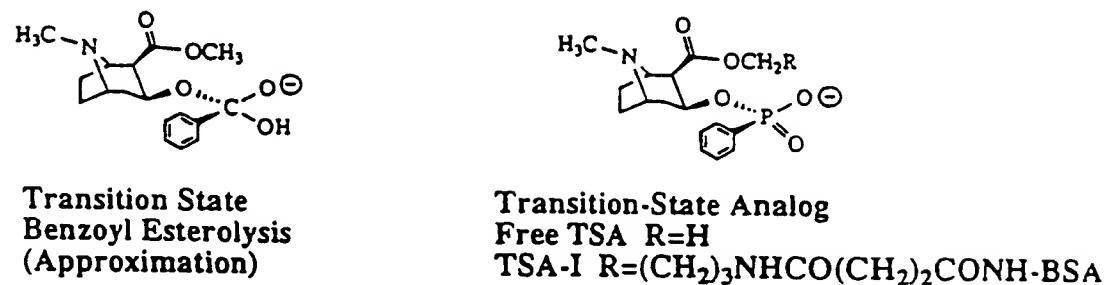
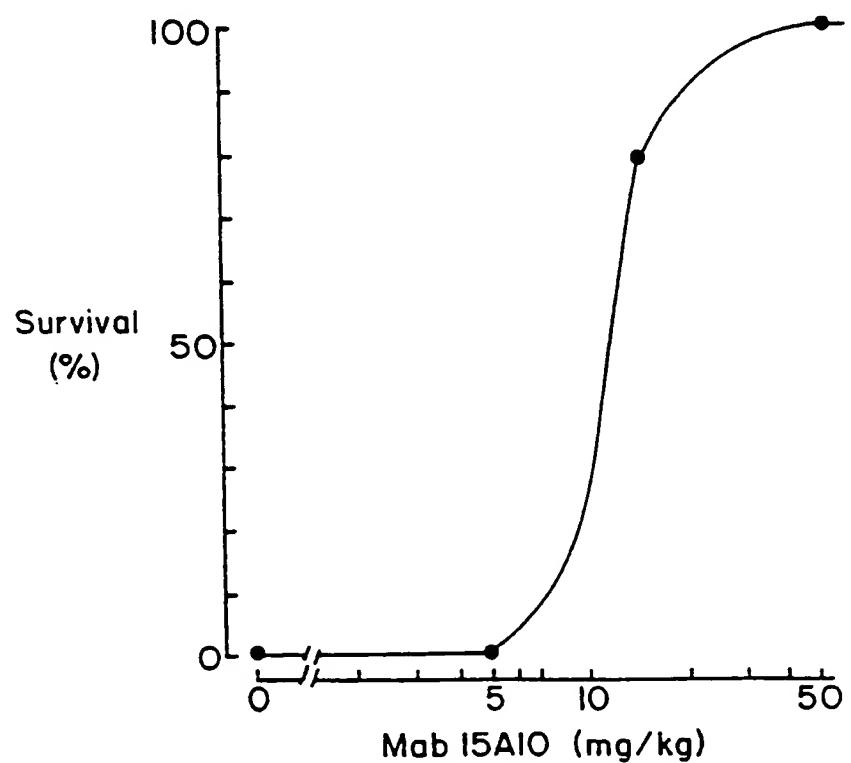


FIG. 28B



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FIG. 29



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FIG. 30A

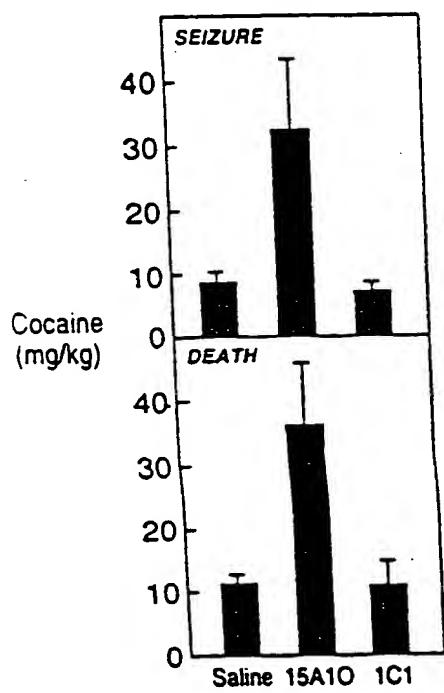


FIG. 30B

FIG. 30C

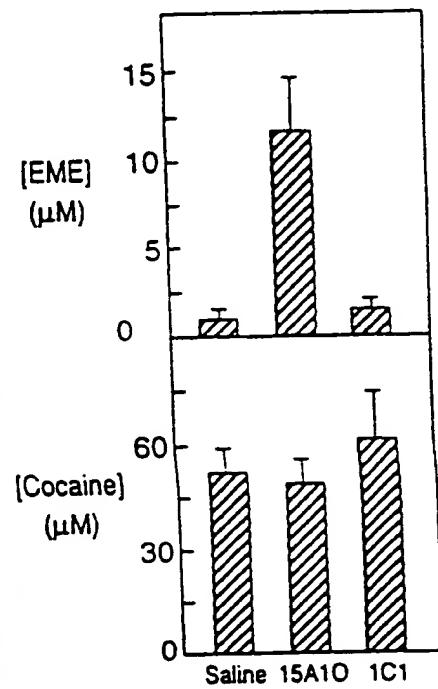


FIG. 30D